



**UNIVERSITY OF TORONTO**  
**FACULTY OF APPLIED SCIENCE & ENGINEERING**

**EMERGENCY TA Job Posting: Winter 2021 ECE1513 - Foundations of Data Analytics and Machine Learning**

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.

**Job Posting Date:** November 11, 2020

**Application Deadline:** December 1, 2020

**Course Description:**

Introduction to the basic theory, the fundamental algorithms, and the computational toolboxes of machine learning. The focus is on a balanced treatment of the practical and theoretical approaches, along with hands on experience with relevant software packages. Supervised learning methods covered in the course will include: the study of linear models for classification and regression and neural networks. Unsupervised learning methods covered in the course will include: principal component analysis, k-means clustering, and Gaussian mixture models. Techniques to control overfitting, including regularization and validation, will be covered.

This course is taught online.

**1 position Available – 100 Hours**

**Duties:**

- \* grading of student assignments
- \* grading of tests and exams
- \* invigilation of the final exam and tests
- \* entry of the above grades into Quercus

**Qualifications:** Students with significant practical and theoretical understanding of Machine Learning concepts, and python programming should apply.

Rate of Pay: Current TA rates: U/G: \$46.24 /hour; SGS I: \$46.24 /hour; SGS II: \$46.24 /hour

**Date of Appointment:** January 4 – April 30 2021

**Notes:**

1. TA position and hours posted are tentative, pending final course determination and enrollment.
2. The Vice-Dean of Graduate Studies in the Faculty of Applied Science & Engineering has the sole authority to offer the above TA positions.
3. CUPE 3902 Unit 1 Collective Agreement is available at <http://agreements.hrandequity.utoronto.ca>.

To apply for a TA position, please submit CV and resume as a single PDF to David Duong [d.duong@utoronto.ca](mailto:d.duong@utoronto.ca) to TA for by December 1, 2020

*If during the application and/or selection process you require accommodation due to a disability, please contact David Duong, [d.duong@utoronto.ca](mailto:d.duong@utoronto.ca)*

*The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.*

*Duties of this position shall be performed at the campus on which the position is located. Where the duties are intended to be performed at another location, such other location will be specified in the posting.*

*This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. The position(s) posted above is (are) tentative, pending final course determinations and enrolments.*